

Identify applications that use a lot of 3G resources and how to restrict them

The current 3G network in our country is widely used, most users turn on 3G features on their smartphones anywhere and they often choose the appropriate 3G packages to use just enough in the month .

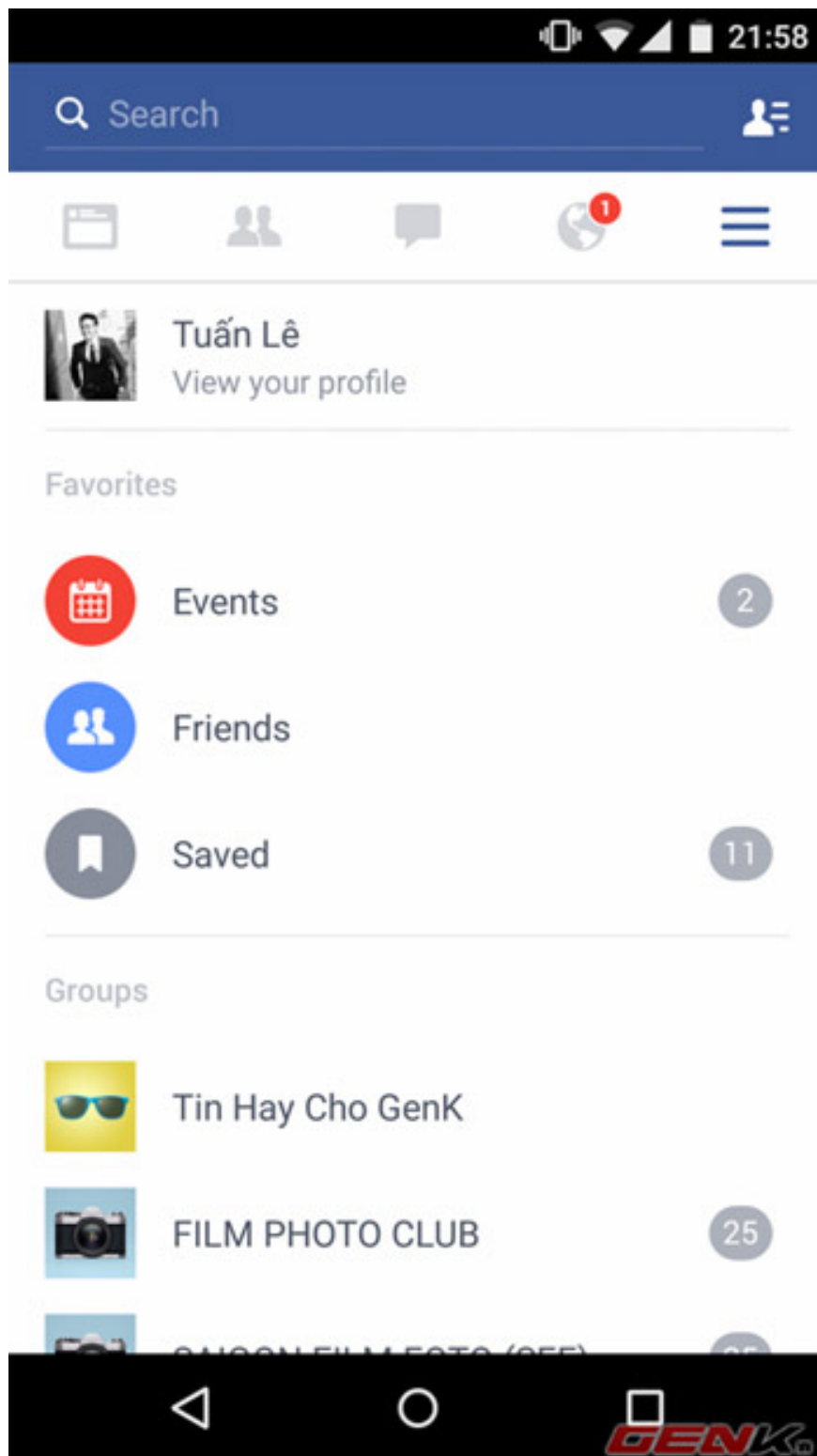
The current 3G network in our country is widely used, most users turn on 3G features on their smartphones anywhere and they often choose the appropriate 3G packages to use just enough in the month .

However, many cases arise when the month is not over, the capacity used in the package has dried up and users repeatedly do not understand why it is so fast. In fact, you need to know that surfing Facebook regularly can cause the capacity of your package to run out quickly.

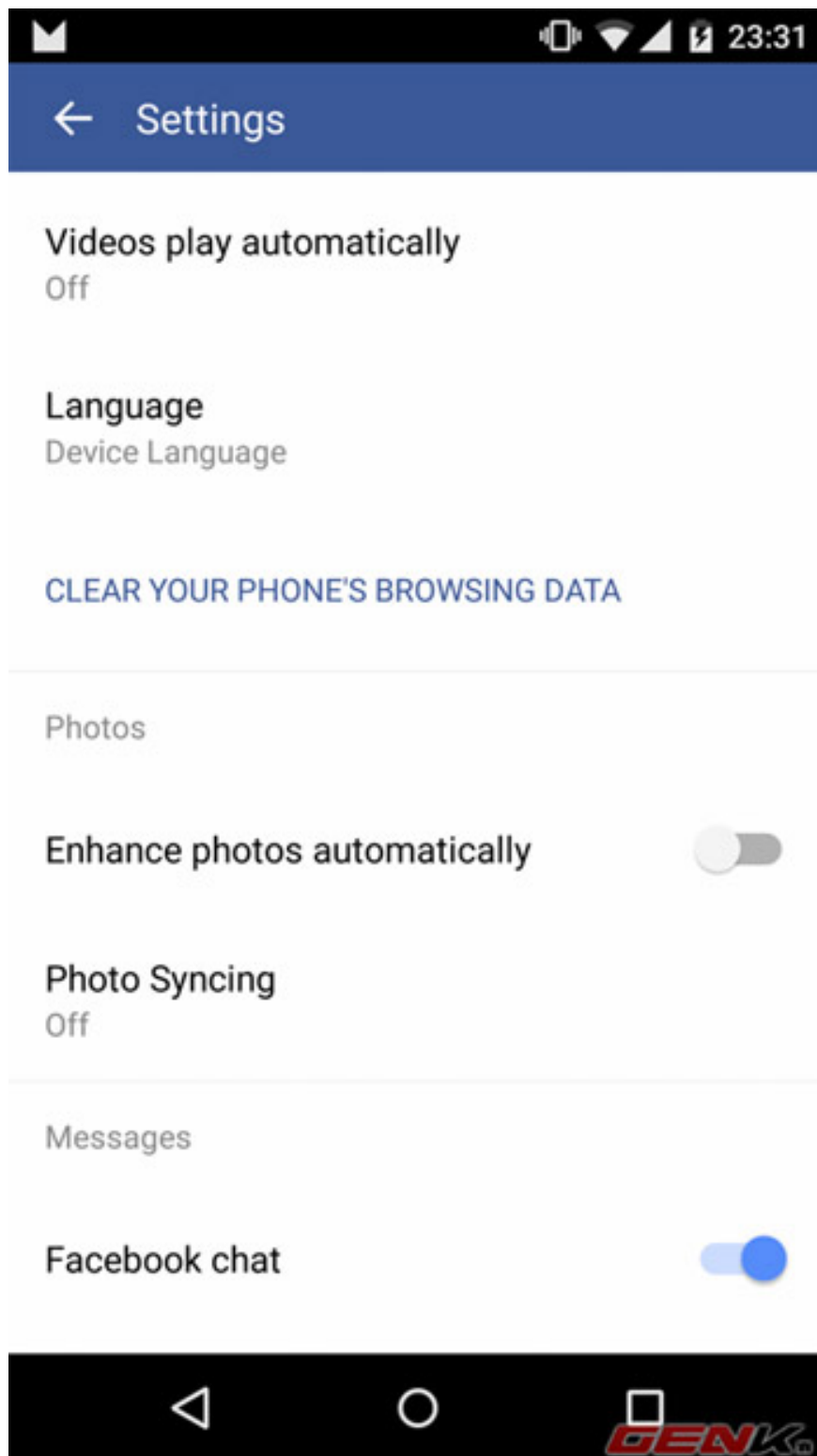
Social Network

According to Cisco's measuring tool, an average of 1 hour of surfing social networking sites will cost 90 MB of space, twice as much as listening to music from online services at the same time (for normal music quality). With such data usage, users can spend up to 2.7 GB of network space within 1 month.

The majority of 3G traffic is heavily used because of the auto-play feature on the Facebook application, known as Twitter, which is expected to have similar features in upcoming versions. To limit the potential loss of 3G traffic, users can access the Facebook application, click on the icon with **3 horizontal lines** on the right hand side (For Android version, this icon will be on the left and iOS. will be below).



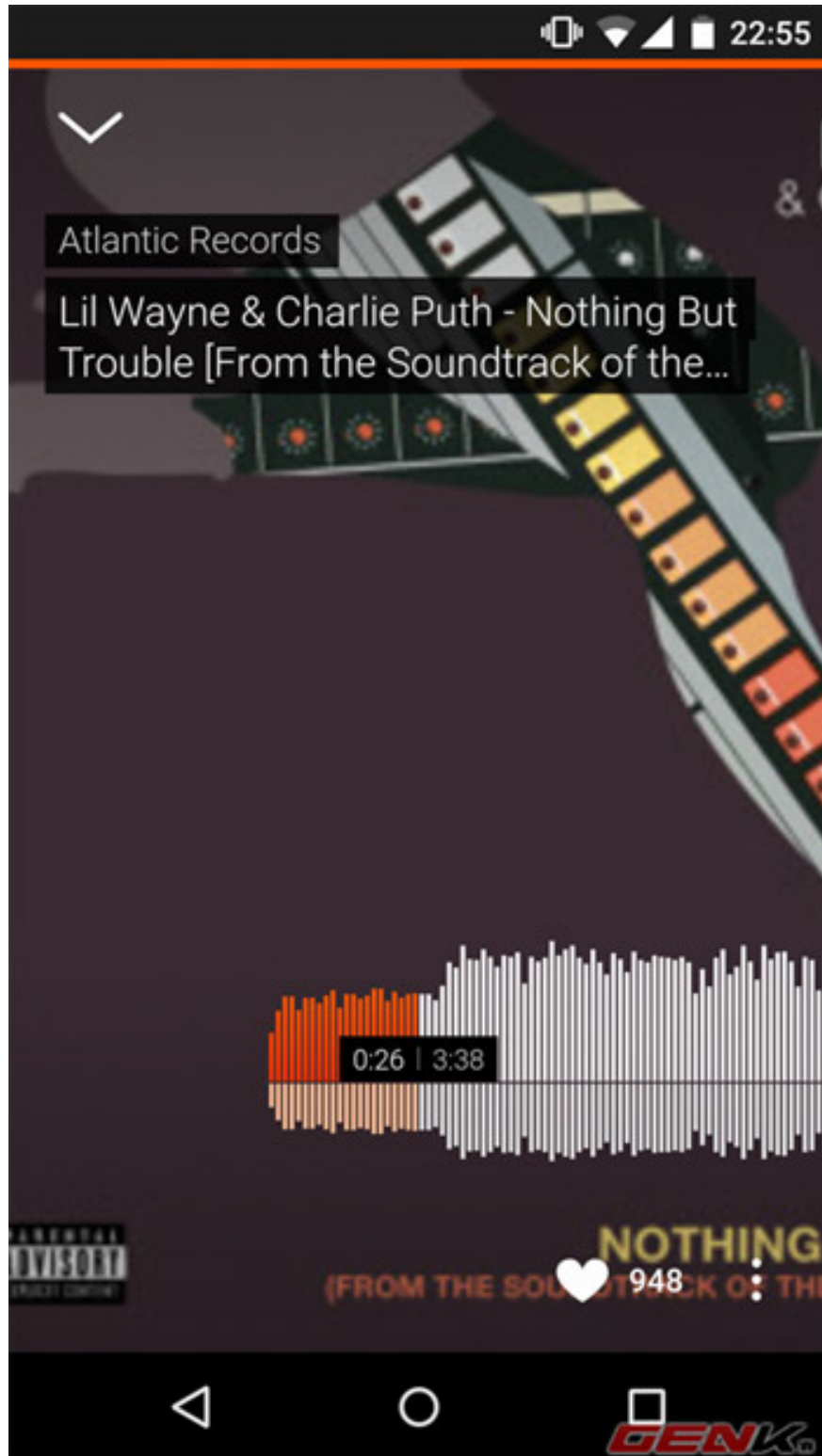
For Android users, scroll to **App Settings**, switch "**Video play automatically**" to **OFF**. In iOS, users need to go to **Account Settings**, then select **Videos and Photos**> **Auto-play** , turn off the Smart Auto-play feature and select **Use Wi-Fi Only**.



Of course, not just Facebook, but any social networking application that displays multiple images or videos also *consumes* a fair amount of 3G traffic.

Listen to music or watch movies online

Listening to online music in normal quality within 1 hour will consume an average of 43 MB of 3G traffic, or 1.3 GB equivalent within 1 month if listening to music online regularly 1 hour / day. For some online music services that offer lower music quality, such as 64 kbps, will use less 3G traffic.



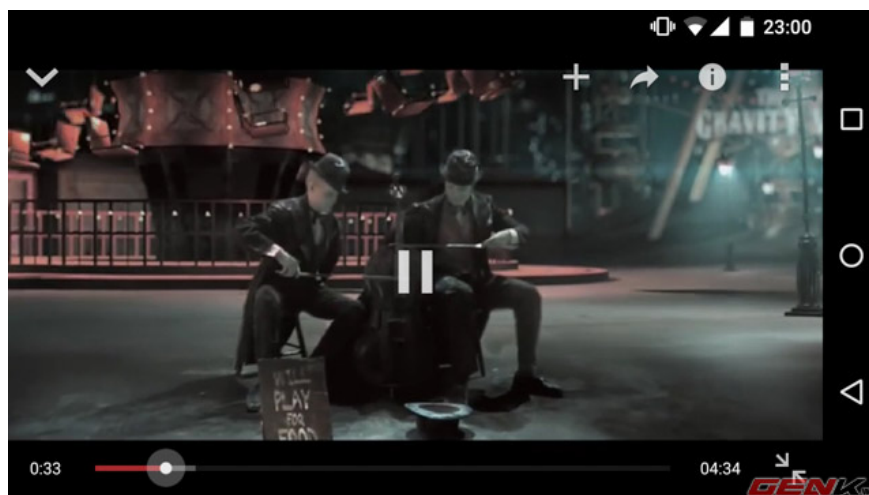
Online music services are also the cause of consuming 3G.

If listening to music online at higher quality (320 kbps) will cost about 144 MB / hour, equivalent to 4.32 GB monthly, this is a "pretty" number. In order for readers to better understand, we have a spreadsheet when listening to music online in Spotify service as follows:

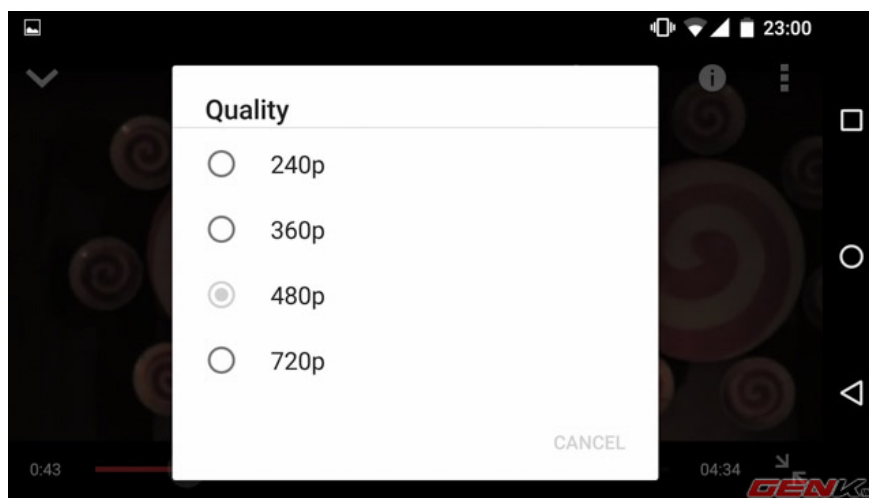
1. Normal quality (96 kbps) = 0.72 MB / minute, equivalent to 43.2 MB / hour.
2. Good quality (160 kbps) = 1.2 MB / minute, equivalent to 72 MB / hour.
3. High quality (320 kbps) = 2.4 MB / minute, equivalent to 144 MB / hour.

Thus, in order to reduce the amount of online music listening to 3G data, users only have two options: Listen only when using Wi-Fi or be forced to listen at low quality to save 3G capacity.

Besides listening to music online, watching movies online is also a form of 3G data consumption very much. For YouTube, this app often automatically adjusts video quality according to network speed, however, users can actively adjust by pressing on **the 3-dot mark** in the right corner of the video.



Choose **Quality** and adjust the video resolution to a more reasonable level if you are using a 3G network.



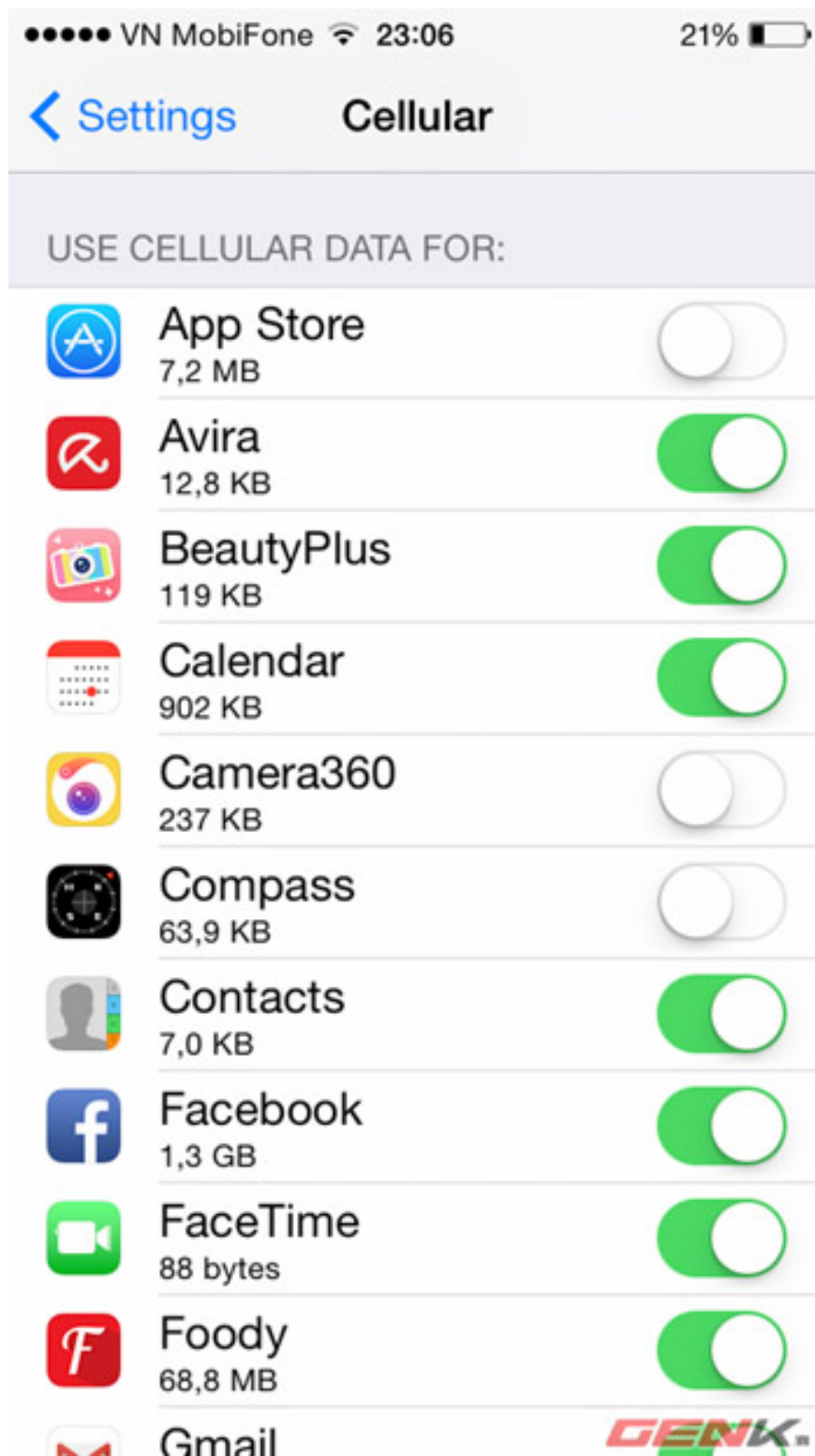
Below is the average statistics table for each video resolution:

1. Resolution 360p = 5,625 MB / minute, equivalent to 337.5 MB / hour.
2. Resolution 480p = 7.5 MB / minute, equivalent to 450 MB / hour.
3. 720p = 18.75 MB / minute resolution, equivalent to 1,125 MB / hour.
4. 1080p resolution = 33.75 MB / minute, equivalent to 2,025 MB / hour.

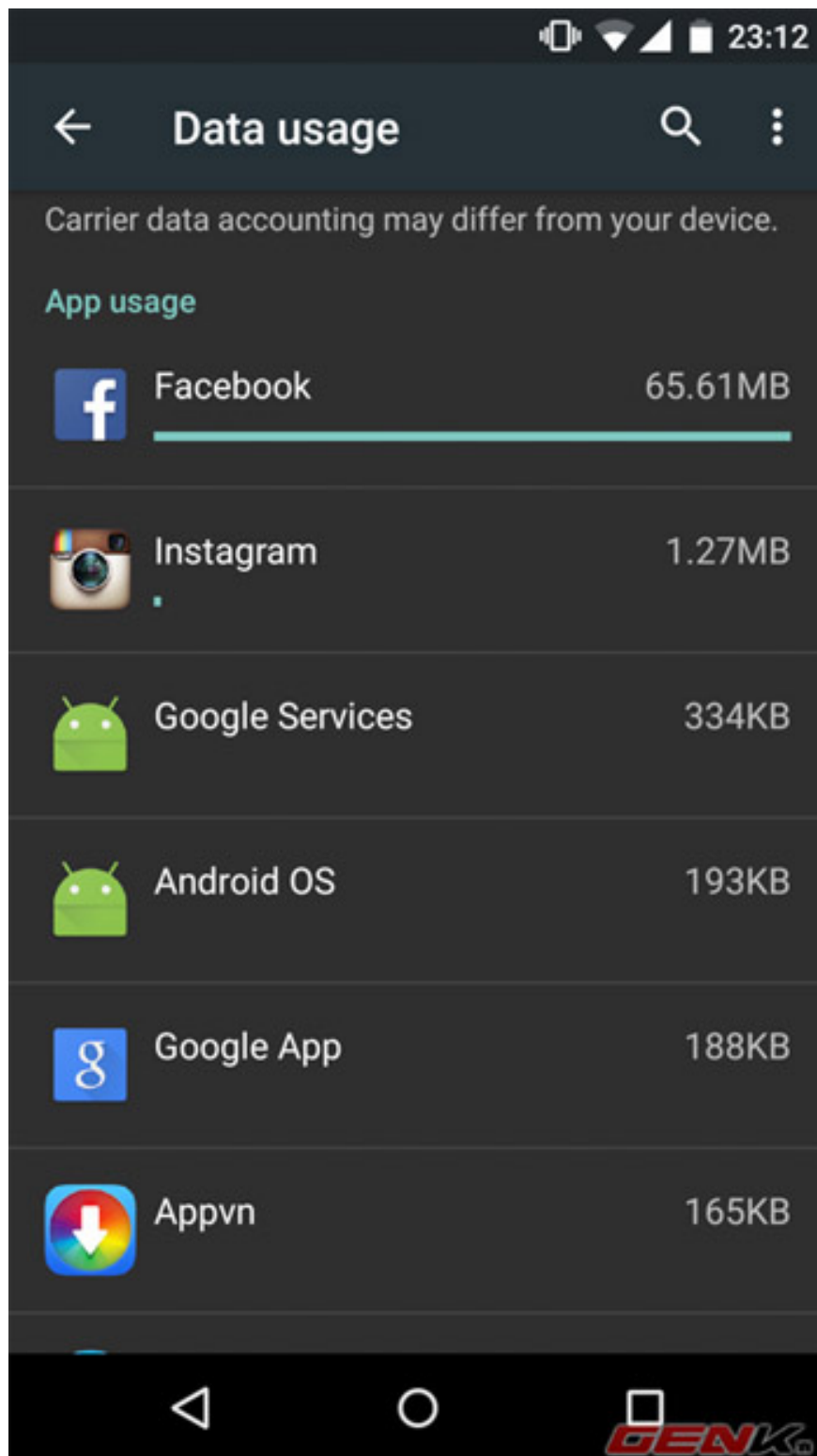
Check which applications consume a lot of 3G traffic and find ways to disable it

All mobile devices running iOS, Android and Windows Phone are available to check applications that use network traffic, from which users can review and know which applications consume the most network data. .

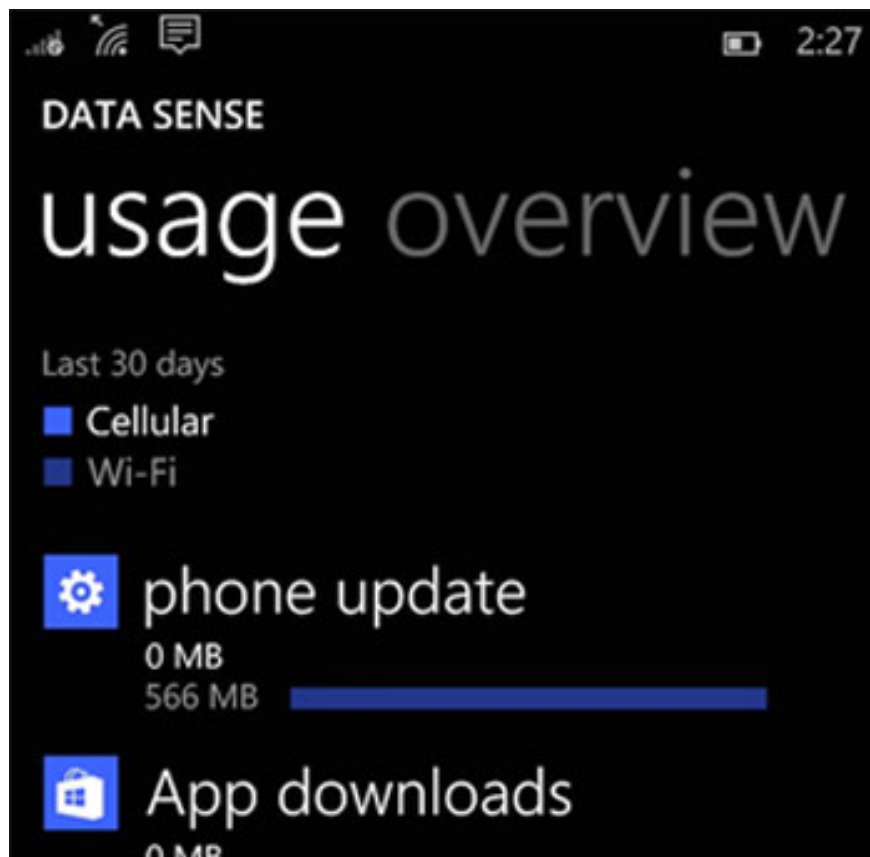
On devices running iOS, users can go to **Settings> Cellular** and scroll down to see the list of applications in use.



For devices running Android operating system, users go to **Settings**> **Data usage** and scroll down to see statistics of applications using 3G data that are ranked from high to low. Besides, current Nexus and HTC devices also allow users to set 3G usage limit every month and when approaching the phone limit, they will notify users to find ways to limit use or transfer to Use Wi-Fi.



For devices running Windows Phone, users can access **Data Sense**, swipe right to access the **Usage** section. Here, users will see the list of applications using 3G traffic as well as setting the same limit as on Android.



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